Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

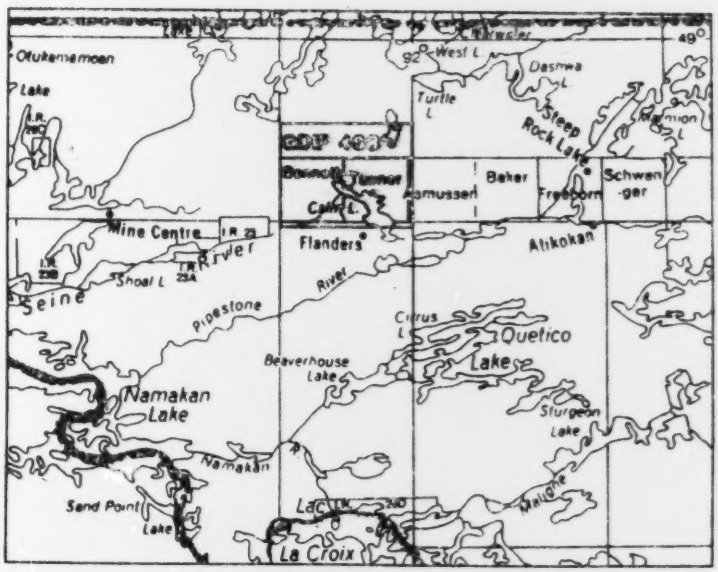
GEOLOGICAL DATA INVENTORY FOLIO 468

HEPBURN LAKE AREA

52 C/16 SE

DISTRICTS OF KENORA AND THUNDER BAY

Compiled by the Staff of
the Resident Geologist's Office
Kenora



Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO
Mineral Development
Exploitation Minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

89-05973/ TS Number 52C/16 SE

Mining Claim Map Number Hepburn Lake G.532, M.2388, Bennett Township M.1920

This project was funded under the Canada Ontario Mineral Development Agreement (COMDA)

STATEMENT This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1989: Hepburn Lake Area, District of Rainy River; Ontario Geological Survey, Geological Data Inventory Folio # 468, compiled by the staff of the Resident Geologist's Office, Kenora, 15 pages and 2 maps.

Original Compilation by: T. Engler

Date	Page Revised	Revised by

Date	Page Revised	Revised by

Hepburn Lake Area

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ACCOMPANYING MAPS

Property Location Map 1 map

Exploration Data Map 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	TE 02/88
2	Assessment Files Research Office, Toronto		
3	ODM General Index; 9 volumes	YES	TE 02/88
4	Catalogue of Airborne Geophysical Surveys (ODM)		
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	TE 02/88
6	ODM Industrial Mineral Reports	NO	TE 02/88
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	TE 02/88
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	TE 02/88
9	Newspaper Clippings File	NO	TE 02/88
10	GSC Index to Publications	YES	TE 02/88
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	TE 02/88
12	OGS Index Maps	YES	TE 02/88
13	Source Mineral Deposit Records (O.G.S.) and MDIR'S	NO	TE 02/88
14	Author - Subject Articles File		
15	Miscellaneous Papers: ODM & OGS	YES	TE 02/88
16	ODM Geological Circulars: OGS Study Series	NO	TE 02/88
17	ODM Preliminary Reports: ODM Bulletins	YES	TE 02/88
18	ODM – OGS Open File Reports	YES	TE 02/88
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	TE 02/88
20	OGS Aggregate Resources Inventory Papers	NO	TE 02/88
21	OGS Mineral Potential Maps	YES	TE 02/88
22	Theses on File, Kenora	NO	TE 02/88
23	Aerial Photos on File, Kenora	YES	TE 02/88
24	OBM Maps on File, Kenora	YES	TE 02/88

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . Anhydrite
- △ ank. . . . . Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . Apatite
- △ arg . . . . . Argentite
- △ As . . . . . Arsenic
- △ asp . . . . . Arsenopyrite
- △ asb . . . . . Asbestos
- △ ba. . . . . Barite
- △ be. . . . . Beryl
- △ Bi. . . . . Bismuth
- △ bn . . . . . Bornite
- △ bran . . . . . Brannerite
- △ bruc . . . . . Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . Calcite
- △ carb . . . . . Carbonate
- △ cel . . . . . Celestite
- △ cc. . . . . Chalcocite
- △ cp. . . . . Chalcopyrite
- △ ch. . . . . Chert
- △ clay . . . . . Clay
- △ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . Columbite
- △ Cu . . . . . Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . Feldspar
- △ fl . . . . . Fluorite (flurospar)
- ▲ fu. . . . . Fuchsite
- △ gn. . . . . Galena
- △ gt . . . . . Garnet
- △ goe . . . . . Goethite
- ▲ Au . . . . . Gold
- ▲ gf . . . . . Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . Gypsum
- △ hem . . . . . Hematite
- ▲ il . . . . . Ilmenite
- △ Fe . . . . . Iron
- ▲ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- △ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . Magnesite
- ▲ mag . . . . . Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . Marl
- △ mi . . . . . Mica
- △ ml . . . . . Millerite
- △ mo . . . . . Molybdenite
- △ Mo . . . . . Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . Niobium
- △ Pd . . . . . Palladium
- △ peat . . . . . Peat
- △ pent . . . . . Pentlandite
- △ Pt. . . . . Platinum
- ▲ py . . . . . Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . Pyrolusite
- ▲ po . . . . . Pyrrhotite
- △ q . . . . . Quartz
- △ qcv . . . . . Quartz carbonate vein
- △ ra. . . . . Radioactive minerals
- △ RE . . . . . Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . Shale
- △ sid . . . . . Siderite
- △ si . . . . . Silica
- △ Ag . . . . . Silver
- △ sl . . . . . Slate
- △ sm . . . . . Smaltite
- △ sod . . . . . Sodalite
- △ spec . . . . . Specularite
- △ sp. . . . . Sphalerite
- △ spd . . . . . Spodumene
- △ staur . . . . . Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . Stone
- △ talc. . . . . Talc
- △ Te . . . . . Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . Thorite
- △ Th . . . . . Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . Tourmaline
- △ trap . . . . . Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . Uranium
- △ verm . . . . . Vermiculite
- △ Y . . . . . Yttrium
- △ Zn . . . . . Zinc
- △ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or mentioned within either Drillhole Summary or Mineral Occurrences.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Bennett-Tanner IF Occurrence	mag		MRC 11, p.292	OGS AR Vol. 69, pt.4, p.10,14,15 OGS Map 1960b OGS GR 226, p.25,26,46 OGS Map p.2405 OGS Map p.2467
B	McPherson Lake Occurrence	py			OGS AR Vol. 69, pt.4, p.16 OGS Map 1960b
C	Unnamed	il			OGS GR 226, p.45 OGS Map P.2405 OGS Map 2467
D	Unnamed	Au, py, po			OGS Map P.2405 OGS Map 2467 Assessment File, Kenora 52C/16 SE;B-1,2,3,5
E	Unnamed	py			OGS Map P.2405 OGS Map 2467 Assessment File, Kenora 52C/16 SE; A-1

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE Kenora COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Canadian Nickel Co. Ltd. 52C/16 SE; A-1				76															
2	Lynx Canada Explorations Ltd. 52C/16 SE; B-1											83	83							
2	Lynx Canada Explorations Ltd. 52C/16 SE; B-5		84			84														
3	Lynx Canada Explorations Ltd. 52C/16 SE; B-2				84	84														
4	Lynx Canada Explorations Ltd. 52C/16 SE; B-3	84										83	83							

GDIF FORM No.

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Canadian Nickel Co. Ltd.	46845-0	Feb/76	185°	-45°	6.0	241.0	py,gf	
2	Lynx Canada Explorations Limited	SR-1-84	Jan/84	025°	-50°	8.0	253.0	py,mag	
3	Lynx Canada Explorations Limited	SR-2-84	Jan-Feb /84	025°	-50°	16.0	303.0	py,po,fu	Au
4	Lynx Canada Explorations Limited	SR-3-84	Feb/84	025°	-50°	5.0	333.0	py,po,IF (mag, py),gf	Au
5	Lynx Canada Explorations Limited	SR-4-84	Feb/84	025°	-50°	18.0	353.0	none	

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
	No data on file as of December 1987 for Hepburn Lake Area, Kenora Mining Division.				

GDIF FORM NO. 4

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
2	soil (B-horizon)	Au, Zn, Cu	Lynx Canada Explorations Limited	Assessment file, Kenora 52 C/16 SE; B-5
2	humus	Au	Lynx Canada Explorations Limited	Assessment file, Kenora 52 C/16 SE; B-5

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

No data on file for Hepburn Lake Area, Kenora Mining Division as of December 1987.

Age Dating is available for adjacent areas. Refer to OGS OFR 5592. Accompanied by map P.2843, scale 1" to 16 miles.

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kenora

Newspaper clippings in the Kenora Office are filed in the corresponding Mineral Deposits File

ODM GENERAL INDEX SEARCH

Words searched Bennett-Tanner IF Occurrence, Bennett Township, Beynon Lake, Canadian Nickel Company Limited, Cautley Creek, Ginter, J.M., Hepburn Lake, Holmes Lake, La Seine, Lynx Canada Explorations Limited, McPherson Lake Occurrence, Seine River

Index Volume	Listing	Report Volume	Part	Page
1	Bennett Township, R.R.d			
	Location of, description by Proudfoot	5		152
	Seine River, Rainy Lake			
	Gold	R.C.		64
	Rocks on, Huronian	R.C.		18
	sedimentary	23	1	205
	Seine Series	23	1	232
	Surveys on, ref. to	4		40
	Seine River, reg., R.R.d			
	Gold, discoveries (1908)	23	1	9,52
	future of, notes by Blue	5		8,9
	Map, with	4		
3	Canadian Nickel Co. Ltd.			
	Incorporated	46	1	59
6	Bennett Township, R.R.d			
	Geology, report on, with map by W.L. Young	69		4
	Rainy River District			
	Report on parts of:			
	Bennett-Tanner area	69		4
8	Bennett Lake			
	Bennett Township, Rainy River District	MP 056		64
	Bennett-Tanner Occurrences			
	Bennett Township, Rainy River District	MRC 011		292
	Bennet Township, Rainy River District			
	Iron	MRC 011		292
9	Canadian Nickel Co. Ltd.			
	Calm Lake area, Rainy River District	MP 096		33
	Seine River area, Rainy River District			
	Report (quaternary) & maps 5070 & 5072 on, 1980 by M.A. Roed	NOTS 054		

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL COMPILATION MAPS		
Blackburn, C.E., Beard, R.C., Rivett, S	1979	Kenora-Fort Frances, Kenora and Rainy River Districts Geological Compilation Series	OGS Map 2443	1" to 4 miles (1:253,440)
Davies, J.C., Pryslak, A.P., Harris, F.	1965	Rainy Lake Sheet, District of Rainy River, Geological Compilation Series	ODM Map P.293	1" to 2 miles (1:11,640)
Fumerton, S.L.	1984	Calm Lake Area, Rainy River District; Ontario Geological Survey, Precambrian Geology Series, Geology 1980	OGS Map 2467	1" to 1/2 mile (1:31,680)
Sage, R.P., Breaks, F.W., Stott, G.M., McWilliams, G.M., Ali, A.	1974	Operation Ignace-Armstrong, Mine Centre-Entwine Lake Sheet, Districts of Kenora and Rainy River, Ontario Division Mines, Geology 1973	OGS Map P.965	1" to 2 miles (1:126,720)
Schneiders, B.R., McConnell, C.D.	1981	Calm Lake Area, Rainy River District; Thunder Bay Data Series. Data compiled 1980, 1981	OGS Map P.2157	1" to 1/4 mile (1:15,840)
Young, W.L. et al	1960	Bennett-Tanner Area, District of Rainy River, Ontario	ODM Map 1960b	1" to 1/2 mile (1:31,680)
		GEOPHYSICAL MAPS		
Ontario Geological Survey	1980	Airborne Electromagnetic and Total Intensity Magnetic Survey, Atikokan-Mine Centre Area, Western Part, District of Rainy River; by Questor Surveys Ltd. for the Ontario Geological Survey, Geophysical/Geochemical Series, Survey and Compilation, December 1979 to April 1980	OGS Map 80506 OGS Map 80508 OGS Map 80509	(1:20,000)
Ontario Department of Mines and Geological Survey of Canada	1961	Manion Lake, Rainy River District, Ontario, Airborne Magnetic Survey, May to October, 1961	Map 1142G	1" to 1 mile (1:63,360)

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Roed, M. A.	1980	Seine River Area, District of Rainy River, Northern Ontario Engineering Geology Terrain Study. Accompanied by Map 5072	OGS NOEGTS 54	(1:100,000)
Zoltai, S. C.	1961	Kenora-Rainy River Surficial Geology, Ontario Dept. of Lands and Forests	Map S165	1" to 8 miles (1:506,880)
		MINERAL POTENTIAL MAPS		
Springer, J.	1978	Ontario Mineral Potential, International Falls-Roseau Sheet, District of Rainy River; Mineral Deposits Series, Compilation 1977, 1978	OGS Map P.1523	(1:250,000)
		GEOLOGICAL REPORTS AND MAPS		
Fumerton, S. L.	1985	Geology of the Calm Lake Area, District of Rainy River; Accompanied by Map 2467, scale 1:31,680	Report 226	72 pages
Fumerton, S. L.	1981	Precambrian Geology of the Calm Lake Area, Rainy River District (Revised), Geological Series	OGS Map P.2405	1" to 1/4 mile (1:15,840)
Ontario Geological Survey-Geological Survey of Canada	1980	Regional Lake Sediment and Water Geochemical Reconnaissance Data Rainy Lake/Quetico Area, Ontario, NTS 52C, Accompanied by 16 Maps, scale 1:250,000.	OGS OFR 5285	52 pages 1:250,000
Young, W. L.	1960	Geology of the Bennett-Tanner Area	ODM Vol. 69, pt.4	17 pages

GDIF FORM NO.9

NOTES AND ADDENDA

AERIAL PHOTOGRAPH INDEX

(compiled from index maps only)

Roll	Photo Numbers
1952 (scale 1" to 1 mile)	
A13501	146 - 148
A13504	44 - 46
1982 (scale 1" to 1/4 mile)	
04	248 - 261
05	94 - 99
13	198
15	1-14; 190-203
48	81 - 90
54	179 - 187
62	24-35; 45-56

TOPOGRAPHIC MAPS

52C/16 Manion Lake, Series A751, Edition 1 MCE, Scale 1:50,000
52C International Falls Series A501 Edition 5 MCE, scale 1:250,000

ONTARIO BASE MAP SERIES

(published maps currently available)
Scale 1:20,000

20	15	5500	54000
20	15	5600	54000

MINERAL DEPOSITS FILE

A deposits file is maintained at the Kenora Resident Geologist's Office which contains published data on the following deposits:

1. Bennett-Tanner IF Occurrence
2. McPherson Lake Occurrence

NOTES

In the past Calm Lake has been called Nonwatin Lake
and Hepburn Lake " " " Duck Lake
and Bennett Lake " " " Cedar Lake
and Cantley Lake " " " Moose Lake
and Beynon Lake " " " West Moose Lake
and Miranda Creek" " " Beaver River

GDIF FORM NO.10

92° 15' 00"

48° 45' 00"

Bennett Lake

Bennett Cr.

Seine

Laseine

Mills Cr.

River

Mc Pherson Lake

Little

Canley R.

Lake

Cr.

Seine R.

Beynon

Lake

1

2

3

4

KENORA

MINING

DIVISION

92°15'00"

48°52'30"

Bennett Lake

Bennett Cl

Seine R

Mc Pherson Lake

Little R

Conley R

Holmes Lake

Beynon Lake

Cl

River

Seine R

DAM

DAM

1

2

3

KENORA MINING DIVISION

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ ◆³ — Geochemical sample site, with reference number
- ■ ◆³ — Area of geochemical sampling, with reference number
- ☐ ✳² — Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ☐ AM — Airborne magnetic anomaly
- ☐ — Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ — Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ — Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ ARA — Airborne radiometric anomaly
- ■ M — Ground magnetic anomaly
- ■ VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Rock quarry
- ☐ Adit
- ☐ Sand and/or gravel pit

48°52'30"

92°15'00"

Holmes

Lake

River

Cr.

Cantley

Little

KENORA MINING DIVISION

THUNDER BAY MINING DIVISION

Beynon

Cantley

Lake

IF,mag

Hepburn

Lake

DAM

DAM

48°52'30"

92°00'00"

KENORA MINING DIVISION

THUNDER BAY MINING DIVISION

Dovetail Lake

Beynon Lake

Cantley L

Joe Lake

Joe Cr.

Hepburn Lake

DAM

DAM

IF, mag

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Kilometre 0.5

Mile 0.5

G

TYPES OF DATA

48°52'30"

92°00'00

Dovetail Lake

Cantley L

Joe Lake

Joe Cr.

burn Lake

Cr.

Ministry of Northern Development and Mines

Ontario

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 468

(Map 2 of 2)

HEPBURN LAKE AREA

52 C/16 SE

DISTRICTS OF KENORA AND THUNDER BAY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- 4 A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- 2 — Location of single drillhole, with reference number
- 2 — Location of closely spaced group of drillholes, with reference number
- ?2 — Drillhole, exact location uncertain, with reference number

KENORA

THUNDER BAY

MINING DIVISION

MINING DIVISION

TAVANNE

Seine R.

Lake Beynon

Lake Hepburn

Lake Calm

Lake Gourley

Redpine Pt

Joe Cr.

KENORA

MINING DIVISION

HUNDER BAY

MINING DIVISION

TANNIE

Seine R.

Lake

Calm

Lake

Hepburn

Lake

Beynon

Lake

Connley

Joe Cr.

☐ R Resistivity anomaly

☐ GR Gravity anomaly

MISCELLANEOUS DATA

☐ Trenching, pit

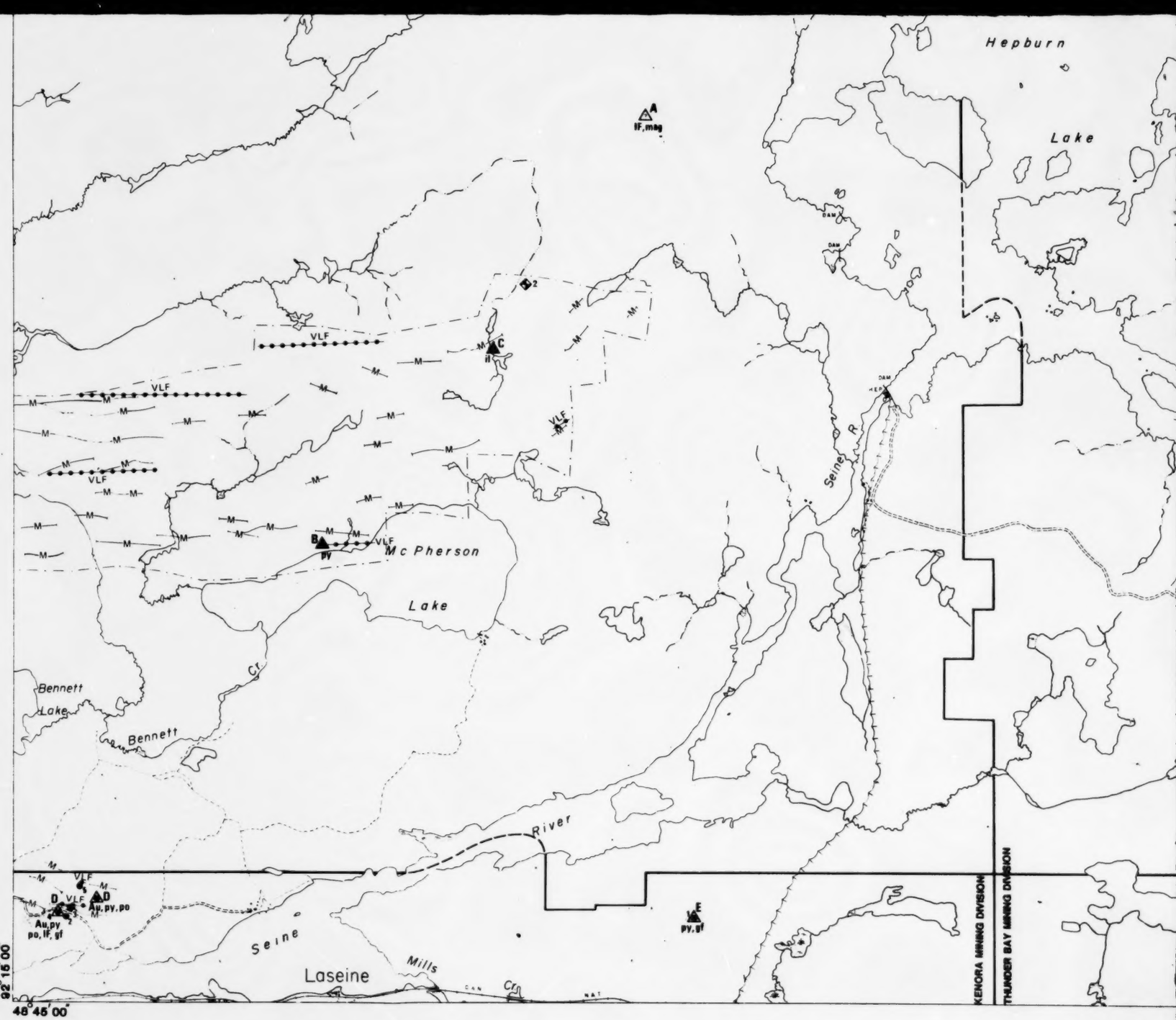
☐ Adit

☐ Open pit

☐ Rock quarry

☐ Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



TANNER

Lake

Miranda

Cr.

Calm

Lake

Redpine
Pt

Niven
L.

Seine R.

KENORA MINING DIVISION

THUNDER BAY MINING DIVISION

92°00'00"

48°45'00"

Lake

TANNER

Miranda

Cr.

Calm

Redpine
Pl

Lake

Niven

L.

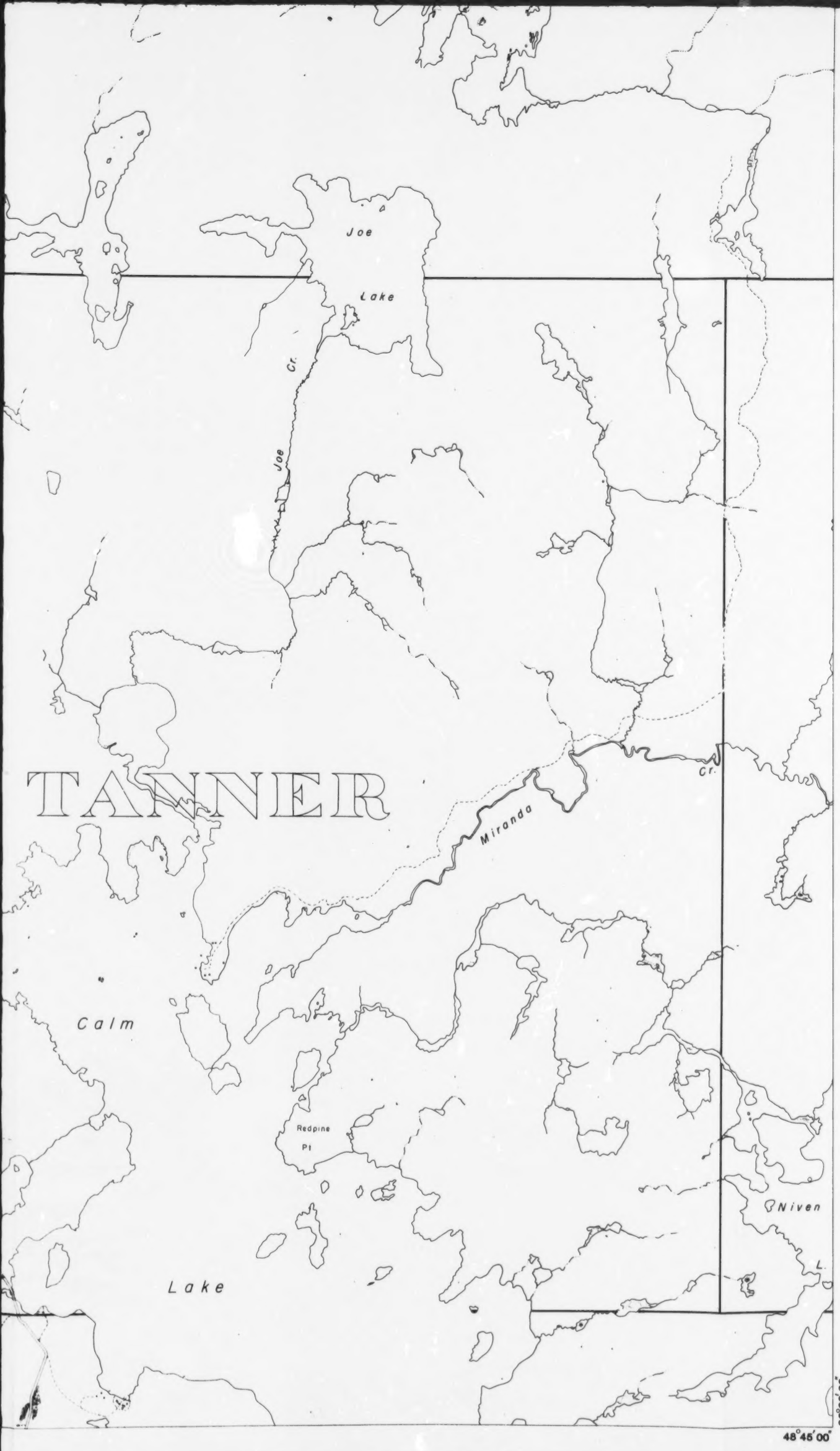
92°00'00"

48°45'00"

■ 4 A. Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- □ •² Location of single drillhole, with reference number
- □ ◉² Location of closely spaced group of drillholes, with reference number
- □ (?)² Drillhole, exact location uncertain, with reference number
- □ Property with underground drillholes in this general area, with reference number
- □ ○² Property with drillholes which have not been plotted on map, with reference number
- □ ⊕² Reverse circulation drillhole; churn drilling, with reference number



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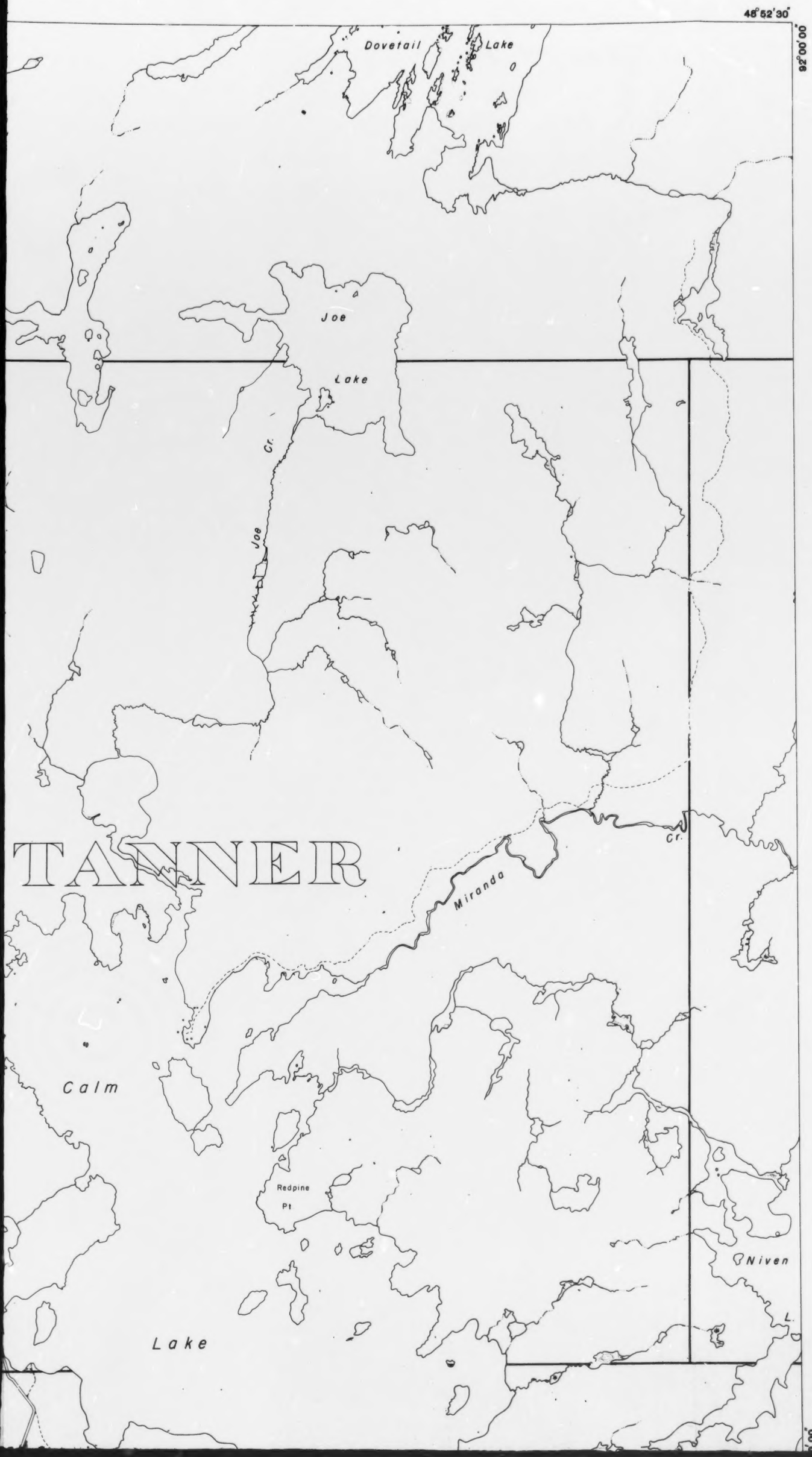

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ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 468

(Map 1 of 2)

HEPBURN LAKE AREA

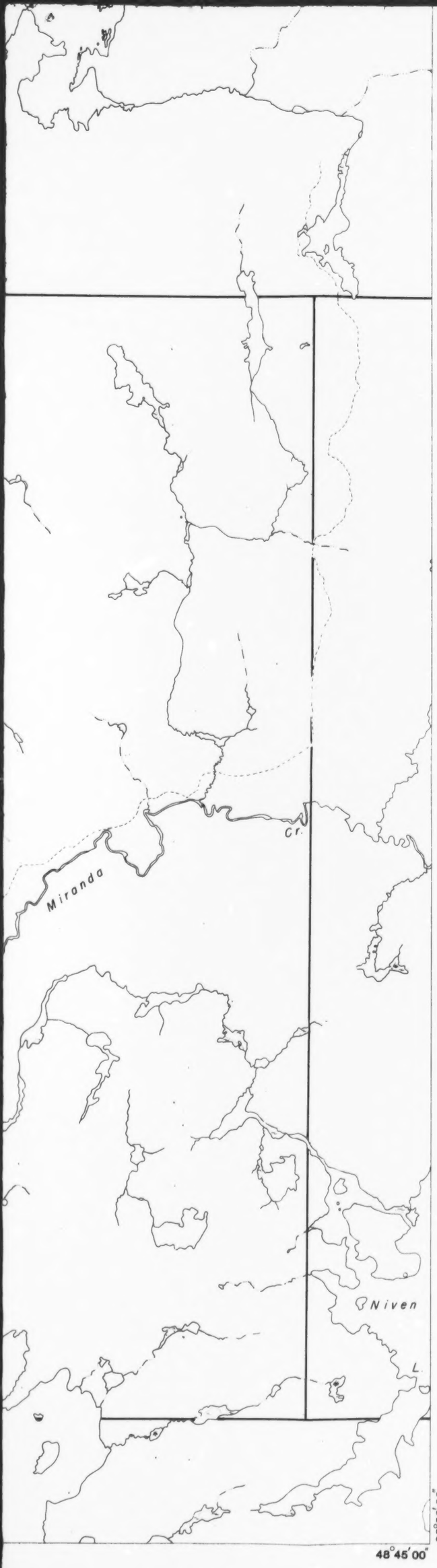
52C/16 SE

DISTRICTS OF KENORA AND THUNDER BAY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

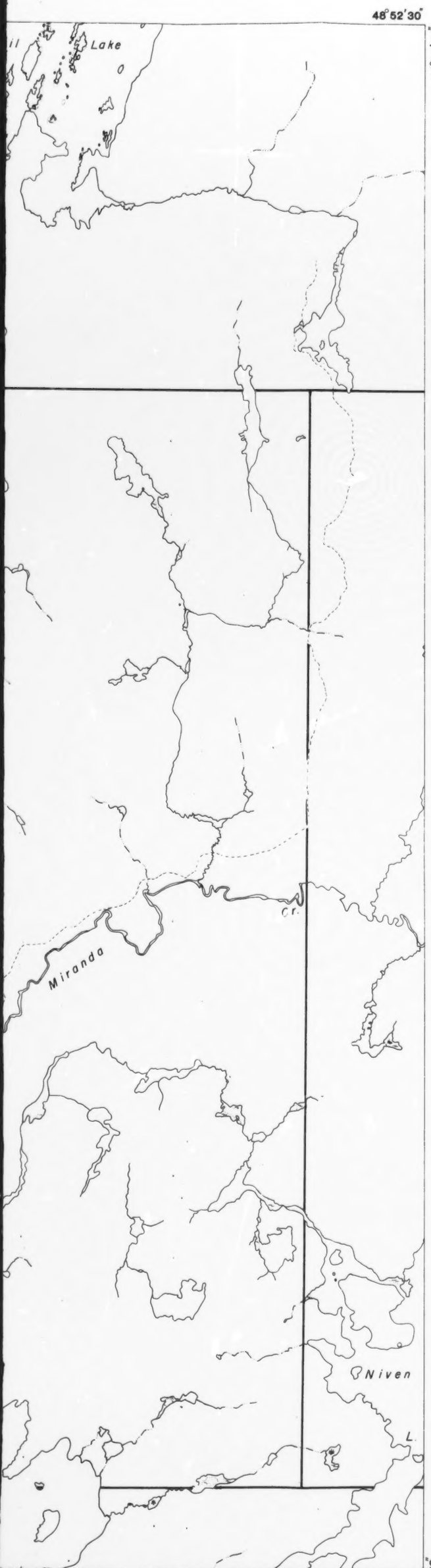


EXPLORATION DATA FILE AREAS

■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area of exploration

□ ★ File covers whole township or area



Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 468

(Map 1 of 2)

HEPBURN LAKE AREA

52C/16 SE

DISTRICTS OF KENORA AND THUNDER BAY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

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